

FIG. 1

FIG. 3

FIG. 4

distributivity: (x + 4) %3 = (x %3 + 4 %3) %3 constant folding: = (x %3 + 1) %3 constant unfolding: = (x %3 + 1 %3) %3 invert distributivity: = (x + 1) %3 (a)

modulo expansion: (x+2) %3 = 3 - x %3 - (x+1) %3

FIG. 5

FIG. 6

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FIG. 8

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cseymod3 = -1;
for (y=0; y<M+3; ++y) {
  cseymin1mod3 = cseymod3;</pre>
   cseymod3 = y*3;
cseymin2mod3 = 3-cseymod3-cseymin1mod3;
   csexmod3x3=-3;
   cseymin1mod2 = (y-1)%2;
   cseymod2=1-cseymin1mod2;
   for (x=0; x<N+5; ++x) {
  csexmin1mod3x3 = csexmod3x3;</pre>
     csexmod3x3 = (x%3)*3;
     csexmin2mod3x3 = 9-csexmod3x3-csexmin1mod3x3;
     csexmin1x2 = (x-1)*2;
csexmin3x2 = csexmin1x2-4;
     if (x>=3 \&\& x<N+3 \&\& y>=2 \&\& y<M+2)
        tmparray[(csexmin3x2+ cseymod2)%160
                                + (csexmin3x2 + cseymod2)/160*256 + 96
          = comp_edge_pixels[csexmod3x3
                                        + cseymin2mod3] = maxdiff_compute;
     if (x>= 1 \&\& x<N+1 \&\& y>=1 \&\& y<=M)
        tmparray[(csexmin1x2 + cseymin1mod2)%64
+ (csexmin1x2 + cseymin1mod2)/64*256]
          = gauss_xy_pixels[csexmin1mod3x3
                                       + cseymin1mod3] = gauss_xy_compute;
} ...
```

FIG. 12

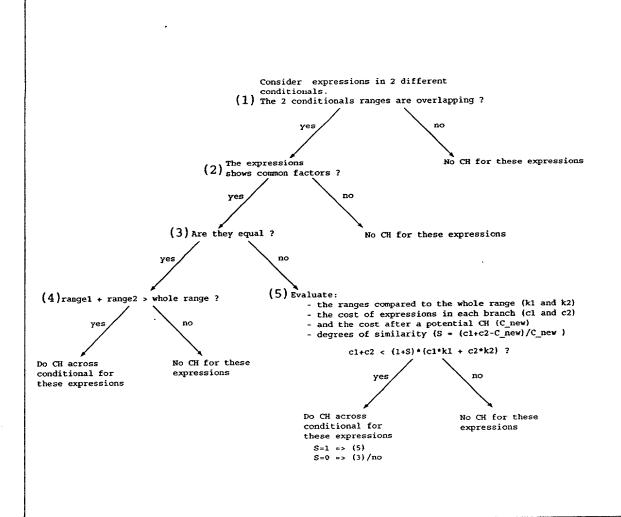


FIG. 13